

**Status of the Claims**

1. (currently amended) A method for downloading data, comprising the steps of:

establishing a connection over a communication network between a remote client and a server, said connection comprising an original a client connection socket;

receiving a download request from said client via said connection for download of information from said server;

constructing a copy of said original client connection socket;

maintaining an open connection between with said client via said copy of said original client connection socket;

closing said original client connection socket;

enqueueing said copy of said original client connection socket with copies of other sockets in a queue to await service of said request by ~~in~~ a download manager process; and

executing said download manager process to service said request by transmitting said information to said client via said copy of said original client connection socket.

2. (currently amended) The method according to claim 1, further comprising the step of forcing a conversion of said copy of said original client connection socket to a non-blocking socket.

3. (canceled).

4. (currently amended) The method according to claim 1, wherein said client comprises a plurality of clients, and said steps of establishing a connection, and constructing a copy of said original client connection socket, are performed substantially concurrently with respect to each of said plurality of clients.

5. (previously presented) The method according to claim 1, wherein said download request further comprises a request to download a file.

6. (original) The method according to claim 1, wherein said connection comprises a TCP session.

7. (currently amended) The method according to claim 1, wherein said original client connection socket of said connection is a blocking socket.

8. (original) The method according to claim 1, wherein said server allows a maximum number of open file descriptors, further comprising the steps of:

spawning a duplicate download manager process when said maximum number of open file descriptors is exceeded;

performing said step of receiving a download request in one of said download manager process and said duplicate download manager process; and

servicing previously pending requests in another of said download manager process and said duplicate download manager process.

9. (original) The method according to claim 1, further comprising the steps of:

accepting new connections for additional clients over said communication network;

establishing respective first threads in said server to operate said connection and said new connections;

establishing a second thread to operate said download manager process; and

communicating between said download manager process and said client and said additional clients via said connection and said new connections respectively using non-blocking I/O.

10. (currently amended) A computer software product, comprising a computer-readable medium in which computer program instructions are stored, which instructions, when read by a computer, cause the computer to perform a method for downloading files from said computer over a data network comprising the steps of:

intercepting a download request for information that is received via a first connection from a remote client, said first connection comprising ~~an original~~ a client connection socket;

constructing a copy of said ~~original~~ client connection socket;

maintaining an open connection between with said client via  
said copy of said original client connection socket:

installing a download manager in said computer;

enqueueing a set of data comprising said download request  
and said copy of said original client connection socket with  
copies of other sockets in a queue to await service of said  
request by said download manager; and

with said download manager servicing said request by  
downloading said information from said computer to said client  
via said copy of said original client connection socket.

11. (currently amended) The computer software product  
according to claim 10, wherein said client comprises a plurality  
of clients, and said steps of intercepting a download request,  
and transmitting a copy of said original client connection  
socket, and downloading said information are performed  
substantially concurrently with respect to each of said plurality  
of clients.

12. (currently amended) The computer software product  
according to claim 10, wherein said computer is further  
instructed to perform the steps of

after performing the step of enqueueing a set of data  
closing said first connection; and

forcing a conversion of said copy of said original client  
connection socket to a non-blocking socket.

13. (previously presented) The computer software product according to claim 10, wherein enqueueing said download request in said download manager, wherein said download request is a request to download a file.

14. (original) The computer software product according to claim 10, wherein said first connection comprises a TCP session.

15. (currently amended) The computer software product according to claim 10, wherein said original client connection socket of said first connection is a blocking socket.

16. (original) The computer software product according to claim 10, wherein said computer allows a maximum number of open file descriptors, further comprising the steps of:

spawning a duplicate download manager when said maximum number of open file descriptors is exceeded;

receiving said set of data in one of said download manager and said duplicate download manager; and

performing said step of download information for previously pending requests in another of said download manager and said duplicate download manager.

17. (previously presented) The computer software product according to claim 10, wherein said computer is further instructed to perform the steps of:

accepting new connections for additional clients ;  
establishing respective first threads in said computer to  
operate said new connections ;  
establishing a second thread to operate said download  
manager; and  
communicating between said download manager and said client  
and said additional clients via said new connections respectively  
using non-blocking I/O.

18. (previously presented) A system for downloading  
information over a data network, comprising:

a server connectable to a plurality of clients across said  
data network via blocking sockets, said server being adapted to  
intercept download requests from said clients, and to associate  
each of said download requests with respective copies of said  
blocking sockets and to maintain open connection with said  
clients using said respective copies; and

a download manager executing in said server that receives  
said download requests and said copies from said server and  
enqueue said download requests and said copies, said download  
manager being adapted to force a conversion of said copies to  
non-blocking sockets, said server thereupon closing said blocking  
sockets, wherein said download manager causes said download  
requests to be serviced from said server across said data network  
via respective ones of said non-blocking sockets.

19. (original) The system according to claim 18, wherein said download manager is a subassembly of said server.

20. (original) The system according to claim 18, wherein said download manager comprises a queue for holding said download requests, wherein said download requests are serviced in turn from said queue.

21. (previously presented) The system according to claim 18, wherein said server establishes respective first separate threads to operate sockets connecting said server with said clients and establishes a second thread to operate said download manager, said download manager force conversions of said blocking sockets to non-blocking sockets and communicating with said clients via said non-blocking sockets using non-blocking I/O.